

# NEWSLETTER

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## REB500sys now includes Transformer protection



- ▲ The smart solution for cost-efficient station protection and monitoring of Busbars, Line and Transformer Feeders
- ▲ Reduced life-cycle costs from investment to system management
- ▲ Rationalized and enhanced protection schemes
- ▲ Higher reliability and availability of the energy supply

**The REB500sys** is a proven system solution with a high degree of functional integration and has gained comprehensive acceptance by demanding customers all over the world. Its latest enhancement is the inclusion of differential and backup protection for 2- and 3-winding as well as autotransformers. This complements the existing busbar, breaker failure, line and line-specific backup protection and makes REB500sys the most comprehensive station protection system available today.

**The versatile REB500sys supports you in simplifying and enhancing your protection concepts.**

Whether you use REB500sys

- to dispense with separate Main 2/backup protection for your line feeders respectively Group 1/backup protection for your transformer feeders or
- to now cost-effectively add busbar and breaker failure protection where this was not commercially viable before

you gain all along the way from reduced life-cycle costs as well as increased reliability and availability of the energy supply.

Pre-configured and type-tested configurations for customer projects are available. Please ask for the Application Description, Edition January 2005

**Features and User benefits**

**SYSTEM**

Simplified and enhanced protection scheme  
**= Increased reliability**

Comprehensive protection functionality  
**= More security**

Proven algorithms and technology  
**= Peace of mind**

Modular system  
**= Flexible and easy to extend**

Uniform system  
**= Less spares and easy maintenance**

**CENTRAL and BAY UNIT\***

Easy-to-use setting and configuration program  
**= Time savings**

Dynamic busbar replica and measurement display  
**= On-line status monitoring**

**CENTRAL UNIT\***

Comprehensive monitoring functionality  
**= Reduced maintenance and fast fault recognition**

Central access to station-wide disturbance and event records  
**= Fast fault analysis**

**BAY UNIT\***

Combination of busbar and breaker failure protection with feeder and backup protection  
**= Better cost-efficiency**

Replacement of separate Main 2 / Group 1 or backup protection  
**= Less devices and space**

Installation close to the switchgear  
**= Less cabling**

Autonomous feeder protection functions  
**= More security**

Bay-oriented disturbance and event recording  
**= More information**

**Conclusion**

After the successful introduction of REB500sys with more than 50 systems supplied to utilities and industry in 15 countries around the globe since 2001, the inclusion of differential and backup protection for 2- and 3-winding as well as autotransformers makes it the most comprehensive station protection system available today.

The first enhanced REB500sys with transformer differential protection has already been ordered for the 220 kV substation Chamason of the Swiss utility EOS. Commissioning is scheduled for mid 2005. EOS already has two REB500sys systems with line protection in successful operation.

\*Fiber-optic cabling and high EMC

**= Safe and cost-effective decentralized installation**

For more information please refer to the responsible ABB sales engineer for your country or to the address mentioned below



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